

CLAIM AMENDMENTS

Please cancel non-elected claims 40-87 and reconsider pending claims 88-93 in view of the following comments.

Claims 1-87 (canceled)

Claim 88 (original): An automated bio-matter processing apparatus, comprising:

 a grinder adapted to receive the bio-matter and to extract juice from the bio-matter;

 a juice pH monitoring and adjustment system located downstream of the grinder to receive the juice from the grinder and to monitor and adjust pH of the juice;

 a heater located downstream of the juice pH monitoring and adjustment system to receive pH adjusted juice and to heat the pH adjusted juice to a first temperature for a first length of time;

 a centrifuge located downstream of the heater to receive heated pH adjusted juice and to separate the heated pH adjusted juice into a pellet stream and a supernatant stream; and

 a computerized control system communicated with the grinder, the juice pH monitorizing and adjustment system, the heater and the centrifuge, so that the control system monitors and controls the automated processing apparatus.

Claim 89 (original): The apparatus of claim 88, further comprising:
a filtering system located downstream of the supernatant stream from
the centrifuge to filter the supernatant stream.

Claim 90 (original): The apparatus of claim 89, wherein the filtering system
comprises:

at least one first filter; and
a separate ultrafiltration system.

Claim 91 (original): The apparatus of claim 88, further comprising:
a resuspension tank located downstream of the pellet stream from the
centrifuge;

a pellet stream pH monitoring and adjustment system located
downstream of the resuspension tank; and

a second centrifuge located downstream of the pellet stream pH
monitoring adjustment system.

Claim 92 (original): The apparatus of claim 88, wherein the grinder
comprises:

a first cutter;
a second cutter; and
a press.

Claim 93 (original): The apparatus of claim 88, wherein the heater comprises:
a flexible length piping apparatus.